OMB No. 0651-0011

INFORMATION		Atty. Docket No.: 56522USA2A.002			al No.: 09	/827,77	
~ ~ ~ \Cm \ 1	LOSURE A	Applicant(s): Thomas R. Gehring et al.					
		Filing Date: April 6, 2001 Group: 28577					
U.S. PATENT DOCUMENTS							
Francisco			000000000000000000000000000000000000000		8		
.xaniinei	Document Number	Date	Name	Class	SubClass	Filing Dat	
Initial	2 279 252	06/12/45	Carable et al	00	20 02	Appropri	
	2,378,252	06/12/45	Staehle et al.	88	28.9 ₃	 	
01	3,691,140	09/12/72	Silver	260			
a	3,712,707	01/23/73	Henkes, Jr.	350	122	_	
a .	3,872,032	03/18/75	Kanemaru et al.	260	2H	ļ	
<u>a</u>	4,095,013	06/13/78	Burger	428	522		
a	4,166,152	08/28/79	Baker et al.	428	522		
	4,323,301	04/06/82	Spector	350	117		
0	4,379,617	04/12/83	Funakoshi et al.	350	126		
α	4,418,986	12/06/83	Yata et al.	350	128		
0	4,468,092	08/28/84	Inoue et al.	350	128	L	
a	4,509,823	04/09/85	Moriguchi et al.	350	128		
2	4,576,850	03/18/86	Martens	428	156		
<i>(</i> -	4,875,259	10/24/89	Appeldorn	24	576		
a	4,896,953	01/30/90	Cobb Jr.	350	452		
2	4,968,562	11/06/90	Delgado	428	402		
a	4,994,322	02/19/91	Delgado et al.	428	343		
a	4,999,937	03/19/91	Bechtold	40	610		
0	5,010,671	04/30/91	Stonehouse	40	594		
a	5,141,790	08/25/92	Calhoun et al.	428	40		
		EIGN PATE	NT DOCUMENTS				
	Document Number	Date of Publication	Country	Class	SubClass		
an	WO99/64927	12/16/99	World Patent			Yes N	
5	WO99/13378	03/18/99	World Patent				
en	WO99/50710	10/07/99	World Patent				
er	WO98/45753	10/15/98	World Patent				
on	WO98/39759	09/11/98	World Patent				
Cal	WO00/56556	09/28/00	World Patent	-			
	EP 0 783 133	07/09/97	Europe				
ОТН	ER DOCUMENTS (I			tinent F	aners, et	c.)	
Coll	Product Literature f			THICH I	upers, et		
	Hitachi Product Lit				_		
c	DNP product literat						
EXAMINER	hill		Date Considered	9/2	7 15	z .	
	l if reference considered, whethe not considered. Include copy of O-FB-A820						

Page 1 of 3

Also form PTO-1449)

OMB No. 0651-0011

5,183,597 5,196,266 5,201,101 5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	iling Date: A J.S. PATENT Date 02/02/93 03/23/93 04/13/93 03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98 05/04/99 07/20/99	DOCUMENTS Name Lu Lu et al. Rouser et al. Wilson et al. Lu et al. Vance Vance Vance Walker et al. Goldhaber et al. Peck	Class 264 428 24 - 428 428 427 359 359 705	SubClass 1.4 355 = 575, 403 355 = 355	Appr	Date
5,183,597 5,196,266 5,201,101 5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	02/02/93 03/23/93 04/13/93 04/13/93 03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98	Name Lu Lu et al. Rouser et al. Wilson et al. Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	264 428 24 - 428 428 427 359 359 705	355 575, 405 355 207.1 614 614	Appr	ropriz
5,183,597 5,196,266 5,201,101 5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	02/02/93 03/23/93 04/13/93 03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98	Lu Lu et al. Rouser et al. Wilson et al. Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	264 428 24 - 428 428 427 359 359 705	355 575, 405 355 207.1 614 614	Appr	ropria
5,196,266 5,201,101 5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	03/23/93 04/13/93 03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98	Lu et al. Rouser et al. Wilson et al. Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	428 24 - 428 428 427 359 359 705	355 6 575, 403 355 2 207.1 6 614 614		CA. (
5,201,101 5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	04/13/93 03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98 05/04/99	Rouser et al. Wilson et al. Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	24 - 428 428 427 359 359 705	575, 403 355 207.1 3 614 614		
5,296,277 5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	03/22/94 05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98 05/04/99	Wilson et al. Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	- 428 428 427 359 359 705	40 \$ 355 \(\) 207.1 \(\) 614 \(\) 614		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
5,316,849 5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	05/31/94 11/08/94 10/08/96 07/14/98 08/11/98 08/11/98 05/04/99	Lu et al. Wilson et al. Vance Vance Walker et al. Goldhaber et al.	428 427 359 359 705	355 207.1 3 614 614		<u>'</u>
5,362,516 5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	11/08/94 10/08/96 07/14/98 08/11/98 08/11/98 05/04/99	Wilson et al. Vance Vance Walker et al. Goldhaber et al.	427 359 359 705	207.1 7 614 614		
5,563,738 5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	10/08/96 07/14/98 08/11/98 08/11/98 05/04/99	Vance Vance Walker et al. Goldhaber et al.	359 359 705	614	OM	
5,781,344 5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	07/14/98 08/11/98 08/11/98 05/04/99	Vance Walker et al. Goldhaber et al.	359 705	614	13	
5,794,207 5,794,210 5,899,010 5,926,796 5,960,411	08/11/98 08/11/98 05/04/99	Walker et al. Goldhaber et al.	705			•
5,794,210 5,899,010 5,926,796 5,960,411	08/11/98 05/04/99	Goldhaber et al.		1 23	<u> </u>	
5,899,010 5,926,796 5,960,411	05/04/99		1 705			
5,926,796 5,960,411		I Peck		14		
5,960,411	07/20/99		40	618		
	00,000,000	Walker et al.	705	16		
	09/28/99	Hartman et al.	705	26	<u> </u>	· ·
6,013,722	01/11/00	Yang et al.	524	558		
· 6,030,002	02/29/00	Charley et al.	283	81		•
6,163,402	12/19/00	Chou et al.	359	443		
		<u> </u>				
	-					
			337	019		
Document Number	Date of	Country	Class	SubClass	Tran	slati
	Publication				Voc	N
WO97/01610	01/16/97	World Patent	ę			
WO94/21742	09/29/94	World Patent			-:	#=
WO99/65999	12/23/99			——		\vdash
WO98/39157	09/11/98	World Patent	~ 			\vdash
WO95/06692	03/09/95	World Patent		<u> </u>		
EP 0 736 585	09/01/99	Europe				-
EP 0 570 515	06/05/96	Europe				E
JP 64-86102	03/30/89	Japan				
JP 63-134227	06/06/88	Japan				\vdash
OCUMENTS (I	Including Aut	hors, Title, Date, Per	tinent P	apers, etc	c.)	
	6,171,681 6,197,397 6,204,971 FOR Document Number WO97/01610 WO94/21742 WO99/65999 WO98/39157 WO95/06692 EP 0 736 585 EP 0 570 515 JP 64-86102 JP 63-134227	6,171,681 01/09/01 6,197,397 03/06/01 6,204,971 03/20/01 FOREIGN PATEN Document Number Date of Publication WO97/01610 01/16/97 WO94/21742 09/29/94 WO99/65999 12/23/99 WO98/39157 09/11/98 WO95/06692 03/09/95 EP 0 736 585 09/01/99 EP 0 570 515 06/05/96 JP 64-86102 03/30/89 JP 63-134227 06/06/88	6,171,681 01/09/01 Mascarenhas et al. 6,197,397 03/06/01 Sher et al. 6,204,971 03/20/01 Morris et al. FOREIGN PATENT DOCUMENTS Document Number Date of Publication Country WO97/01610 01/16/97 World Patent WO94/21742 09/29/94 World Patent WO99/65999 12/23/99 World Patent WO98/39157 09/11/98 World Patent WO95/06692 03/09/95 World Patent EP 0 736 585 09/01/99 Europe EP 0 570 515 06/05/96 Europe JP 64-86102 03/30/89 Japan JP 63-134227 06/06/88 Japan	6,171,681 01/09/01 Mascarenhas et al. 428 6,197,397 03/06/01 Sher et al. 428 6,204,971 03/20/01 Morris et al. 359 FOREIGN PATENT DOCUMENTS Document Number Date of Publication Country Class WO97/01610 01/16/97 World Patent World Patent WO99/65999 12/23/99 World Patent World Patent WO98/39157 09/11/98 World Patent World Patent EP 0 736 585 09/01/99 Europe Europe EP 0 570 515 06/05/96 Europe Description JP 64-86102 03/30/89 Japan Japan JP 63-134227 06/06/88 Japan Japan	6,171,681 01/09/01 Mascarenhas et al. 428 141 6,197,397 03/06/01 Sher et al. 428 42.3 6,204,971 03/20/01 Morris et al. 359 619 FOREIGN PATENT DOCUMENTS Document Number Date of Publication Country Class SubClass WO97/01610 01/16/97 World Patent World Patent WO99/65999 12/23/99 World Patent World Patent WO98/39157 09/11/98 World Patent World Patent EP 0 736 585 09/01/99 Europe Europe EP 0 570 515 06/05/96 Europe Dapan JP 64-86102 03/30/89 Japan Japan JP 63-134227 06/06/88 Japan Japan	6,171,681 01/09/01 Mascarenhas et al. 428 141 6,197,397 03/06/01 Sher et al. 428 42.3 6,204,971 03/20/01 Morris et al. 359 619 FOREIGN PATENT DOCUMENTS Document Number Date of Publication Country Class SubClass Transpace WO97/01610 01/16/97 World Patent World Patent WO99/65999 12/23/99 World Patent WO98/39157 09/11/98 World Patent WO95/06692 03/09/95 World Patent EP 0 736 585 09/01/99 Europe Europe EP 0 570 515 06/05/96 Europe Europe Description JP 64-86102 03/30/89 Japan Japan Tale 142.3 141 428 42.3 42.3 42.3 42.3 619 141 2.3 619 142.3 142.3 1.3

Additional Art Being Cited Do Not Print this Page on the Issued Patent



Attorney Docket No. 56522USA2A.002 U.S.S.N. 09/827,774 Filed April 6, 2001 Thomas R. Gehring et al.

Examiner Initial	U.S.S.N. Document Number	Date Filed	Name
Ci	U.S.S.N. 09/823,025	03/30/01	Stevenson et al.
cr	U.S.S.N. 09/827,773	04/06/01	Piepel et al.
CL	U.S.S.N. 09/717,598	11/21/00	Piepel et al.
a	U.S.S.N. 09/560,267	04/26/00	Piepel et al.